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1 Independent on-line monitoring of evolving systems

Naftaly H. Minsky

May 1996 Proceedings of the 18th international conference on Software engineering

Full text available: pdf(916.52 KB)
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We argue that the trustworthiness of evolving software systems can be significantly enhanced by a rigorous process of independent on-line monitoring. Such monitoring can prevent fraud, encourage careful maintenance, and serve as an early detector of irregularities in the state and behavior of a system. Unfortunately, there is a conflict between the concepts of on-line and independent monitoring. This conflict is due to the fact that on-line monitoring requires the embedding of some kinds of sens ...

Keywords: evolving software systems, fraud prevention, independent on-line monitoring, irregularity detection, law-governed architecture, sensors, software maintenance, system monitoring, systems software

² Coupling virtual machines and system construction

M. Berthaud, M. Jacolin, Ph. Potin, H. Savary

March 1973 Proceedings of the workshop on virtual computer systems

Full text available: pdf(781.56 KB) Additional Information: full citation, abstract, references, citings, index terms

The behavior of a system running in one virtual machine (OBJECT) is made accessible to an external observer through another virtual machine (SPY) coupled to the previous one. Given the independence of virtual machines, it is possible to run in SPY a fully operational system to which suitable components are added in order to achieve integration and debugging of new systems in OBJECT.

3 Information transmission in computational systems

Ellis Choen

November 1977 Proceedings of the sixth ACM symposium on Operating systems principles

Full text available: pdf(537.87 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents Strong Dependency, a formalism based on an information theoretic approach to information transmission in computational systems. Using the formalism, we show how the imposition of initial constraints reduces variety in a system, eliminating

undesirable information paths. In this way, protection problems, such as the Confinement Problem, may be solved. A variety of inductive techniques are developed useful for proving that such solutions are correct.

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Ladjel Bellatreche, Kamalakar Karlapalem, Michel Schneider

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November 2000 Proceedings of the ninth international conference on Information and knowledge management

Full text available: pdf(217.74 KB) Additional Information: full citation, references, citings, index terms

Keywords: data warehouses, index selection problem, physical data warehouse design, query processing, storage constraint, view selection problem

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Incident handling: an orderly response to unexpected events

Richard L. Rollason-Reese

September 2003 Proceedings of the 31st annual ACM SIGUCCS conference on User services

Full text available: pdf(198.98 KB) Additional Information: full citation, abstract, references, index terms

Computer viruses, worms, denial of service attacks, equipment failures, vandalism, theft and other unwelcome events can send your computer services staff scrambling and cause a variety of problems for your user community. Even the least of these situations can be a distraction for your staff. The most severe can provide an unscheduled opportunity to test your disaster recovery procedure! How does your organization react to these events? Do you have a clearly-defined process in place to deal with ...

Keywords: attack, emergency, incident handling, incident response, recovery, response team

2 Digital rights management and fair use by design: DRM and privacy

Julie E. Cohen

April 2003 Communications of the ACM, Volume 46 Issue 4

Full text available: pdf(66.44 KB) Additional Information: full citation, abstract, references, index terms html(16.47 KB)

How should the law respond to DRM restrictions that invade user privacy?

3 Cost effective dynamic program slicing

Xiangyu Zhang, Rajiv Gupta

June 2004 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation, Volume 39 Issue 6

Additional Information: full citation, abstract, references, index terms Full text available: pdf(234.12 KB)

Although dynamic program slicing was first introduced to aid in user level debugging, applications aimed at improving software quality, reliability, security, and performance have since been identified as candidates for using dynamic slicing. However, the dynamic dependence graph constructed to compute dynamic slices can easily cause slicing algorithms to run out of memory for realistic program runs. In this paper we present the design and evaluation of a cost effective dynamic program slicing a ...

Keywords: debugging, dynamic dependence graph, testing

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| 15 Open Source Software Sami Asiri March 2003 ACM SIGCAS Computers and Society, Volume 32 Issue 5 Full text available: html(635.05 KB) Additional Information: full citation | |
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| 16 ipod, uPod, wePod: doubling your client support and strengthening team ties with virtually no extra resources Jesse Ben Saunders September 2003 Proceedings of the 31st annual ACM SIGUCCS conference on User services Full text available: pdf(140.51 KB) Additional Information: full citation, abstract, index terms It's a Wednesday afternoon at the Princeton University OIT Help Desk phone room. An | |
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Segregatory Coordination and Ellipsis in Text Generation - Shaw (1998) (Correct) (6 citations) multiple-distinct procedure. In the sentence, The spy was in his forties, of average build, and spoke systems contain a strategic and a tactical component. The strategic component determines what to say www.cs.columbia.edu/~shaw/papers/colingacl98.ps.gz

Hierarchical Techniques for Global Illumination.. - Slusallek.. (Correct) can be thought of consisting of three main components: scene description, lighting computation, and Marc Stamminger, and Hans-Peter Seidel Computer Graphics Group, University of Erlangen, Germany Abstract. Germany Abstract. Since the beginning of computer graphics, one of the primary goals has been to create graphics.stanford.edu/~slusallek/Papers/vismath97.ps.gz

A neutral mechanism for the detection of deadlocks under PVM - Chaumette (Correct) Therefore we introduced the concept of a spy. A spy is a special form of graft that does not ftp.irisa.fr/pub/mirrors/netlib/pvm3/epvmug94/contrib/chaumette_a.ps

Evolution of a 60 Decibel Op Amp Using Genetic Programming - Forrest Bennett (1996) (Correct) (2 citations) topology and sizing (numerical values) for each component of a low-distortion, lowbias 60 decibel www.genetic-programming.com/ICES60dB.ps

Towards 3-D model-based tracking and recognition of human.. - Gavrila, Davis (1995) (Correct) from real images. Our system has two major components. The first component takes real image and entails finding the pose parameters of a graphical human model for which its synthesized 3-D Body modeling, pose recovery and tracking 3-D graphical models for the human body often consist of two www.umiacs.umd.edu/users/gavrila/iwafgr.ps.Z

PIDGETS++ - A C++ Framework Unifying PostScript Pictures.. - Scholz, Bokowski (Correct) graphical objects and of constraining their components are separate, in PIDGETSthey are the same: A CFramework Unifying PostScript Pictures, Graphical User Interface Objects, and Lazy One-Way Abstract A framework for programming graphical user interfaces (GUIs)called PIDGETSis www.inf.fu-berlin.de/~heron/papers.ag-ss/enno/tools-published.ps.gz

Understanding Technical Articles and Their Diagrams - Futrelle, Gauch.. (1991) (Correct) structures. Each grammar rule has three components: 1) a production specifying a parent and its Starting from paper documents, both text and graphics are captured and analyzed. We describe the graphs. Model-based image processing discovers graphical objects such as lines, polygons and text. The ftp.ccs.neu.edu/pub/people/nikos/TR-NU-CCS-91-10.ps

A Media-Independent Content Language for Integrated Text and.. - Nancy Green (1998) (Correct) (7 citations) one for information graphics. A media allocation component decides which parts of the plan shall be Content Language for Integrated Text and Graphics Generation Nancy Green*Giuseppe Carenini* generating integrated text and information graphics presentations about complex, quantitative www.cs.cmu.edu/afs/cs.cmu.edu/user/ngreen/public-web-pages/cvir98.ps

Page Segmentation Using Script Identification Vectors.. - Hochberg, Cannon.. (1997) (Correct) vector is calculated for each connected component in a document. The vector expresses the closest www.c3.lanl.gov/~kelly/pubs/sdiut.97/sdiut.97.ps.gz

Propositional Attitudes - Muskens (1993) (Correct) invalid argument (8)8) Sue knows that the tallest spy is a spy Tim is the tallest spy Sue knows that Tim let.kub.nl/general/people/rmuskens/pubs/./propatt.ps

École Polytechnique FÉdÉrale De Lausanne - An Ne (Correct) argument, the operation is performed on each component of the vector. Let us construct a second its many strengths are its powerful but flexible graphics routines, and its facility for writing functions Moreover, it is assumed to work with a graphical user interface (GUI) i ii such as Motif or dmawww.epfl.ch/~kuonen/PS/splusintro first.ps.gz

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